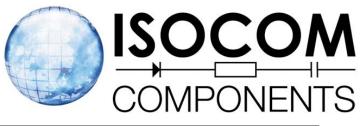
H11AV1X, H11AV2X, H11AV3X H11AV1, H11AV2, H11AV3

OPTICALLY COUPLED ISOLATOR PHOTOTRANSISTOR OUTPUT





APPROVALS

- UL recognised, File No. E91231 Package System "GG "
- 'X' SPECIFICATION APPROVALS VDE 0884 in 3 available lead form : -

 - STD
 - G form
 - SMD approved to CECC 00802
- Certified to EN60950 by Nemko-Certificate No. P01102464

DESCRIPTION

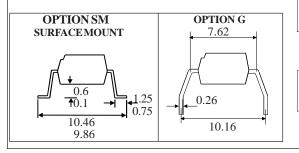
The H11AV series of optically coupled isolators consist of infrared light emitting diode and NPN silicon photo transistor in a standard 6 pin dual in line plastic package.

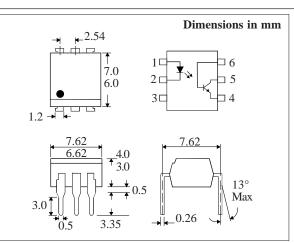
FEATURES

- **Options** :-•
- 10mm lead spread add G after part no. Surface mount - add SM after part no. Tape&reel - add SMT&R after part no.
- High Isolation Voltage $(5.3 kV_{RMS}, 7.5 kV_{PK})$ •
- •
- High BV_{CEO} (70V min) All electrical parameters 100% tested •
- Custom electrical selections available •

APPLICATIONS

- DC motor controllers •
- Industrial systems controllers •
- Measuring instruments •
- Signal transmission between systems of • different potentials and impedances





ABSOLUTEMAXIMUMRATINGS (25°C unless otherwise specified)

Storage Temperature	$-55^{\circ}C$ to $+150^{\circ}C$
Operating Temperature	$-55^{\circ}C$ to $+100^{\circ}C$
Lead Soldering Temperature	
$(1/16 \operatorname{inch} (1.6 \operatorname{mm}) \operatorname{from} \operatorname{case} \operatorname{fo}$	r 10 secs) 260°C

INPUTDIODE

Forward Current	60mA
Reverse Voltage	6V
Power Dissipation	105mW

OUTPUTTRANSISTOR

Collector-emitter Voltage BV _{CEO}	70V
Collector-base Voltage BV	70V
Emitter-collector Voltage BV _{FCO}	6V
Collector Current	50mA
Power Dissipation	160mW

POWER DISSIPATION

Total Power Dissipation _ 200mW (derate linearly 2.67mW/°C above 25°C)

ISOCOM COMPONENTS 2004 LTD

Unit 25B, Park View Road West, Park View Industrial Estate, Brenda Road Hartlepool, Cleveland, TS251UD Tel: (01429) 863609 Fax: (01429) 863581

DB92055

	PARAMETER	MIN	ТҮР	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)		1.2	1.5	V	$I_F = 10mA$
	Reverse Current (I_R)			10	μΑ	V _R =6V
Output	Collector-emitter Breakdown (BV _{CEO}) (note 2)	70			V	$I_{c} = 1mA$
	Collector-base Breakdown (BV_{CBO}) Emitter-collector Breakdown (BV_{ECO}) Collector-emitter Dark Current (I_{CEO})	70 6		50	V V nA	$\begin{split} I_{\rm C} &= 100 \mu A \\ I_{\rm E} &= 100 \mu A \\ V_{\rm CE} &= 10 V \end{split}$
Coupled	Current Transfer Ratio (CTR) H11AV1 H11AV2 H11AV3	100 50 20		300	% % %	$\begin{array}{l} 10 \mathrm{mA~I_{_F},~10V~V_{_{\mathrm{CE}}}} \\ 10 \mathrm{mA~I_{_F},~10V~V_{_{\mathrm{CE}}}} \\ 10 \mathrm{mA~I_{_F},~10V~V_{_{\mathrm{CE}}}} \end{array}$
	Collector-emitter Saturation VoltageV $_{\rm CE(SAT)}$			0.4	V	20mA $\rm I_{\rm F}$, 2mA $\rm I_{\rm C}$
	Input to Output Isolation Voltage V_{ISO}	5300 7500			V _{RMS} V _{PK}	See note 1 See note 1
	Input-output Isolation Resistance R_{ISO}	5x10 ¹⁰			Ω	$V_{10} = 500V \text{ (note 1)}$
	Rise Time, tr Fall Time, tf		2 2		μs μs	$V_{cc} = 5V, fig 1$ $I_F = 10mA, R_L = 75\Omega$

ELECTRICAL CHARACTERISTICS ($\rm T_{A}{=}~25^{\circ}C$ Unless otherwise noted)

Note 1 Measured with input leads shorted together and output leads shorted together.

Note 2 Special Selections are available on request. Please consult the factory.

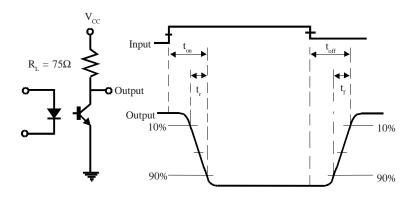
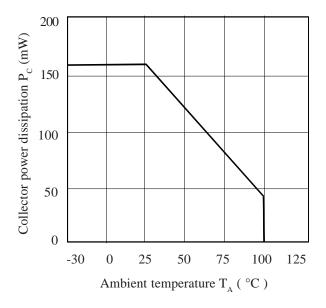


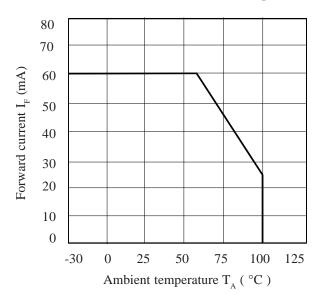
FIG 1

Collector Power Dissipation vs. Ambient Temperature

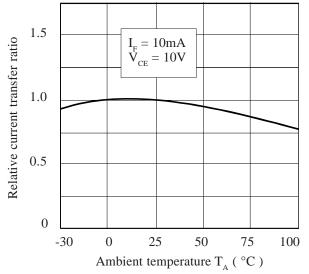
Collector Current vs. Collector-emitter Voltage

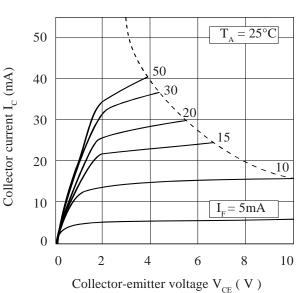




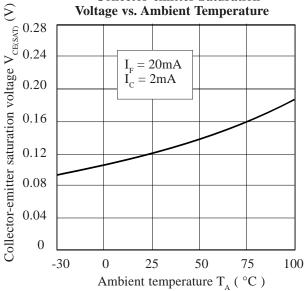


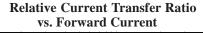


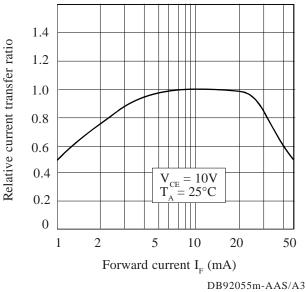




Collector-emitter Saturation Voltage vs. Ambient Temperature







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